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The result of Theorem 2.2 on uniform regularity stays valid. However, we would like to make a small correction in the following part of the proof for Theorem 2.2 on page 161.

\[ \int_{I} \int_{\Omega} \int_{\mathbb{R}^d} \frac{\partial^m Q(f) \partial^m f(v)}{M(v)} dv e^{-2\phi} dx \pi(z) dz \]

\[ + \sum_{l=1}^{m} \frac{1}{2} \left( \frac{\gamma_l}{\gamma} \right)^{2l} \left( \frac{m!}{(m-l)!} \right)^2 \int_{I} \int_{\Omega} \int_{\mathbb{R}^d} \frac{\partial^{m-l} Q(f) \partial^{m-l} f(v)}{M(v)} dv e^{-2\phi} dx \pi(z) dz \]

\[ = - \frac{1}{2} \int_{I} \int_{\Omega} \int_{\mathbb{R}^d} \sigma(v, w, z) M(v) M(w) \left( \frac{\partial^{m-l} f(v)}{M(v)} - \frac{\partial^{m-l} f(w)}{M(w)} \right)^2 dw dv e^{-2\phi} dx \pi(z) dz \]

\[ - \frac{m}{2} \int_{I} \int_{\Omega} \int_{\mathbb{R}^d} \int_{\mathbb{R}^d} \partial_z \sigma(v, w, z) M(v) M(w) \left( \frac{\partial^{m-l} f(v)}{M(v)} - \frac{\partial^{m-l} f(w)}{M(w)} \right) \left( \frac{\partial^m f(v)}{M(v)} - \frac{\partial^m f(w)}{M(w)} \right) dw dv e^{-2\phi} dx \pi(z) dz \]

\[ + \frac{m-1}{2} \left( \frac{\gamma_l}{\gamma} \right)^{2l} \left( \frac{m!}{(m-l)!} \right)^2 \int_{I} \int_{\Omega} \int_{\mathbb{R}^d} \int_{\mathbb{R}^d} \sigma(v, w, z) M(v) M(w) \left( \frac{\partial^{m-l} f(v)}{M(v)} - \frac{\partial^{m-l} f(w)}{M(w)} \right)^2 dw dv e^{-2\phi} dx \pi(z) dz \]

\[ + \int_{I} \int_{\Omega} \int_{\mathbb{R}^d} \int_{\mathbb{R}^d} \frac{\partial^m f(v)}{M(v)} - \frac{\partial^m f(w)}{M(w)} dw dv e^{-2\phi} dx \pi(z) dz \]

\[ \leq - \frac{\gamma}{2} \int_{I} \int_{\Omega} \int_{\mathbb{R}^d} \int_{\mathbb{R}^d} M(v) M(w) \left( \frac{\partial^m f(v)}{M(v)} - \frac{\partial^m f(w)}{M(w)} \right)^2 dw dv e^{-2\phi} dx \pi(z) dz \]

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\[
\begin{align*}
&+ \frac{m_1}{2} \int_I \int_O \int_{R^d} \int_{R^d} M(v)M(w) \left| \frac{\partial^{m-1} f(v)}{M(v)} - \frac{\partial^{m-1} f(w)}{M(w)} \right| ^2 d\omega d\nu^2 d\pi(z) dz \\
&+ \sum_{l=1}^{m-1} \frac{1}{2} \left( \frac{\gamma_1}{\gamma} \right)^{2l} \left( \frac{m!}{(m-l)!} \right)^2 \left[ - \frac{\gamma}{2} \int_I \int_O \int_{R^d} \int_{R^d} M(v)M(w) \left( \frac{\partial^{m-l} f(v)}{M(v)} - \frac{\partial^{m-l} f(w)}{M(w)} \right) \right] d\omega d\nu^2 d\pi(z) dz \\
&+ \frac{\gamma_1}{2} (m-l) \int_I \int_O \int_{R^d} \int_{R^d} M(v)M(w) \left( \frac{\partial^{m-l-1} f(v)}{M(v)} - \frac{\partial^{m-l-1} f(w)}{M(w)} \right) d\omega d\nu^2 d\pi(z) dz \\
&\leq 0. 
\end{align*}
\]

The proof is essentially the same except that the absolute value signs in the integrands of the second and the fourth terms in the right-hand side of the first inequality on the first page, and also in the integrands for the first two terms in the equality that follows, were missing in the original published version.